

Keyflex® BT 2140D

Thermoplastic Copolyester Elastomer

LG Chem Ltd.

Message:

Description
Low Modulus
Application
Films & Sheets

General Information			
Uses	Film		
	Sheet		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 23°C, Injection Molded	95		
Shore D, 23°C, Injection Molded	43		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 23°C, 2.00 mm, Injection Molded)	34.3	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 2.00 mm, Injection Molded)	1000	%	ASTM D638
Flexural Modulus ³ (23°C, 6.40 mm, Injection Molded)	78.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 6.40 mm, Injection Molded	No Break		
23°C, 6.40 mm, Injection Molded	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm, Injection Molded)	70.0	°C	ASTM D648
Peak Melting Temperature	198	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	

Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	< 0.010	%
Cylinder Zone 1 Temp.	200 to 220	°C
Cylinder Zone 2 Temp.	210 to 230	°C
Cylinder Zone 3 Temp.	210 to 230	°C
Cylinder Zone 4 Temp.	210 to 230	°C
Adapter Temperature	210 to 230	°C
Melt Temperature	200 to 240	°C
Die Temperature	200 to 220	°C

NOTE

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|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 15 mm/min |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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